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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,445	06/24/2003	Alexander Goyyadino	200209320-I	4375
7590	10/01/2004		EXAMINER	
HEWLETT-PACKARD COMPANY				TRAN, THIEN F
Intellectual Property Administration				
P.O. Box 272400				
Fort Collins, CO 80527-2400				2811

DATE MAILED: 10/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/603,445	GOVYADINOY ET AL.
	Examiner	Art Unit
	Thien F Tran	2811

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 23 July 2004.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-51 is/are pending in the application.
4a) Of the above claim(s) 42-45 is/are withdrawn from consideration.

5) Claim(s) 24-41 and 46-51 is/are allowed.

6) Claim(s) 1,4,5,18 and 23 is/are rejected.

7) Claim(s) 2,3,6-17 and 19-22 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 06/24/2003.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ .

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____ .

DETAILED ACTION***Election/Restrictions***

Applicant's election with traverse of claims 1-41 and 46-51 in the reply filed on 07/23/2004 is acknowledged. The traversal is on the ground(s) that there is no burden placed upon the examiner to examine all claims. This is not found persuasive because the product and process are located in different classes, 438 and 257, respectively, placing an undue burden upon the examiner.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4-5, 18 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Endo et al. (US 6,188,167).

Endo et al. discloses the claimed electronic device (Fig. 24) comprising a substrate (81, 82); a well 82a defined in the substrate; a tip emitter 80 formed in the well 82a; a gate electrode (an extractor 83) disposed about the well inherently providing the function as claimed, to extract emissions from the tip emitter; a wide lens 71a spaced apart from the extractor 83 for focusing the emissions through an opening defined in the wide lens, the opening having a

diameter greater than a diameter of the well 82a; and an aperture 85a disposed between the extractor 83 and the wide lens.

Regarding claim 4, the device further comprises extractor level focusing means 83 for focusing the emissions toward the aperture 85a.

Regarding claim 5, the extractor level focusing means 83 comprises the extractor 83 being formed as a circular electrode about the well.

Regarding claim 18, the device further comprises a shield 71b disposed on a side of the wide lens 71a that is facing away from the aperture 85a.

Regarding claim 23, the tip emitter 80 is one of a plurality of tip emitters forming the emitter array.

Allowable Subject Matter

Claims 24-41 and 46-51 are allowed.

Claims 2-3, 6-17, 19-22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thien F Tran whose telephone number is (571) 272-1665. The examiner can normally be reached on 8:30AM - 5:00PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on (571) 272-1732. The fax

phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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September 23, 2004


THIEN TRAN
PRIMARY EXAMINER